

ABSTRACT OF THE DISCLOSURE

A semiconductor apparatus comprises: a light input/output portion provided in an upper portion of a semiconductor substrate, the light input/output portion having an opening region for light associated to the light input/output portion to pass through; a transparent film covering the opening region; and an interlayer lens provided on the transparent film, the interlayer lens positioned such that an optical axis of the interlayer lens is parallel to a central axis of the opening region.